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Just the Basics - With Class

If you simply need to mix a few sources to stereo – but insist on the finest audio quality available – the MG10/2 is probably the way to go. It's compact and convenient to use, but won't compromise your signal in any way. With an optional adaptor the MG10/2 can even be mounted on a microphone stand for totally flexible positioning and easy access. For demo and music production in your personal studio, for band rehearsal or small sound reinforcement applications, or simply as a super utility mixer for any application, you can't lose with the MG10/2.

10 Input Channels



The MG10/2 features a total of 10 input channels: two mono microphone/line inputs and four stereo line inputs, two of which offer mono microphone input capability.

Four Low-noise, High-precision Mic Preamps



The microphone preamps provided on the two mono channels and two of the four stereo channels would be worth the price of the entire mixer if

packaged separately. These are high-performance head amplifiers that will bring out the best in any dynamic or condenser microphone.

Phantom Power

So you can take advantage of the superior sonic quality of professional-class studio condenser microphones, all four of the MG10/2's high-performance mic preamps feature switchable phantom power. A single switch turns phantom power on or off for all four channels.

Insert I/O

Mono input channels feature insert I/O patch points so you can add compressors, EQ, or other extra signal-processing to the channels as required.

3-band Channel EQ & HPF

Designed for smooth, "musical" response, the 3-band equalizers provided on all input channels are one more sonic tool you can use to create clean, professional mixes. All mono microphone input channels also feature a switchable highpass filter that can be used to cut out unwanted low-frequency noise.

Two Aux Sends & Stereo Aux Return

The MG10/2 is also full equipped to handle external effects and monitor systems. Use the post-fader auxiliary sends in conjunction with the stereo auxiliary returns to add reverb, delay, or other external effects to the mix, and the prefader sends to feed a separate mix to your monitor system.

Optional Mic Stand Mount

What could be more convenient than having your mixer mounted on a microphone stand for freedom of placement and easy access? With the optional BMS-



10A Mic Stand Adaptor you can do just that, and have your sonic control center within easy



MG12/4 MG16/4 MG16/6FX MIXING CONSOLE Extensive Creative Control In the Studio Or On Stage

The mid-range MG models go beyond the basics to give you extensive control for a wide range of applications – with the no-compromise Yamaha sonic quality that makes the MG mixers the finest in their class. Whether music is a hobby or profession, these mixers will deliver total satisfaction. If you don't need effects, or already have an arsenal of outboard favorites, the MG12/4 or MG16/4 may offer all the capacity and capabilities you need. But if the idea of having some of the finest effects available built right into the console appeals to you, then consider the effect-enabled MG16/6FX.

MG12/4

Superlative Balance Of Sound, Size and Features





12 Input Channels

Four mono microphone/line inputs and four stereo line inputs, two of which offer mono microphone input capability.

Six Low-noise, High-precision Mic Preamps

Six high-performance head amplifiers that will bring out the best in any dynamic or condenser microphone.

Phantom Power

All six of the MG12/4's high-performance mic preamps feature switchable phantom power for studio condenser microphones. A single switch turns phantom power on or off for all six channels.

Insert I/O

All mono input channels feature insert I/O patch points so you can add extra signal-processing to the channels as required.

Four Buses (Stereo and Group)

In addition to the main stereo bus, the MG12/4 features a stereo group bus and outputs that can be used for convenient channel grouping.

3-band Channel EQ & HPF

Smooth, "musical-response" 3-band equalizers on all input channels. All mono microphone input channels also feature a switchable highpass filter that can be used to cut out unwanted low-frequency noise.

Two Aux Sends & Stereo Aux Return

Two auxiliary sends on each channel – one post-fader and one switchable for pre- or post-fader operation – provide plenty of flexibility for external signal processing and monitoring. A stereo auxiliary return is also provided.

Illuminated Switches

Illuminated ON (ST buss assign), PFL (Pre-Fader Listen), and phantom-power switches provide easy visual confirmation of critical console settings.

Rack Mount Adaptors Included

Use your MG mixer on a desktop or mounted in a rack – the rack mount adaptors are provided.



MG16/4 When You Need

When You Need Extra Input Capacity ...





16 Input Channels

Eight mono microphone/line inputs and four stereo line inputs. Two of the stereo inputs also offer mono microphone input capability.

10 Low-noise, High-precision Mic Preamps

Ten high-performance head amplifiers will deliver optimum performance with any dynamic or condenser microphone.

Phantom Power

All ten mic preamps feature switchable phantom power for studio condenser microphones. A single switch turns phantom power on or off for all 10 channels.

Insert I/O

Add compressors, EQ, or other signal-processing gear to the mono channels as required via insert I/O patch points.

Four Buses (Stereo and Group)

The MG16/4 features a stereo group bus and outputs that can be used for convenient channel grouping, in addition to the main stereo bus.

3-band Channel EQ & HPF

Smooth, "musical-response" 3-band equalizers on all input channels. All mono microphone input channels also feature a switchable highpass filter that can be used to cut out unwanted low-frequency noise.

Two Aux Sends & Stereo Aux Return

Each input channel has two auxiliary sends — one post-fader and one switchable for pre- or post-fader operation — affording plenty of flexibility for external signal processing and monitoring. A stereo auxiliary return is also provided.

Illuminated Switches

Illuminated ON (ST buss assign), PFL (Pre-Fader Listen), and phantom-power switches provide easy visual confirmation of critical console settings.



Rack Mount Adaptors Included

Desktop or rackmounted, your MG mixer will happily integrate in any setup. Rack mount adaptors are provided.



MG16/6FX

No Outboard Signal-processing Gear Required!





16 Input Channels

Eight mono microphone/line inputs and four stereo line inputs. Two of the stereo inputs also offer mono microphone input capability.

10 Low-noise, High-precision Mic Preamps

Ten high-performance head amplifiers offer superior performance with any dynamic or condenser microphone.

Phantom Power

All ten mic preamps feature switchable phantom power for phantom-powered studio condenser microphones. A single switch turns phantom power on or off for all 10 channels.

Insert I/O

Add compressors, EQ, or other signal-processing gear to the mono channels as required via insert I/O patch points.

Internal Digital Effects & 7-band Stereo GEQ

Yamaha digital signal processing is widely respected as the finest in the industry. In the MG16/6FX you get a complete effects system with a range of 16 superb reverb



and delay effects built right in. There's also a 7-band stereo graphic equalizer for flexible overall response shaping control.

Six Buses (Stereo and Two Group Pairs)

The MG16/6FX features two pairs of stereo group buses and outputs that can be used for convenient channel grouping, in addition to the main stereo bus.

3-band Mid-sweep Channel EQ & HPF

Smooth, "musical-response" 3-band equalizers with a sweepable mid-band on all input channels. All mono microphone input channels also feature a switchable high-pass filter that can be used to cut out unwanted low-frequency noise.

Three Aux Sends & Stereo Aux Return

Each input channel has three auxiliary sends — one post-fader "Effect" send, one switchable for pre- or post-fader operation, and one pre-fader send — affording plenty of flexibility for external signal processing and monitoring. A stereo auxiliary return is also provided.

Illuminated Switches

Illuminated ON (ST buss assign), PFL (Pre-Fader Listen), and phantom-power switches provide easy visual confirmation of critical console settings.

Rack Mount Adaptors Included

Your MG mixer will happily fit in with any setup – desktop or rack-mounted. Rack mount adaptors are provided.



Serious Capacity For Sound Reinforcement & Installations

If your application is live sound reinforcement you'll want all the channel capacity you can get – just in case. Vocal mics, instrument mics, stereo keyboards, direct-injection feeds, drum mics, and the rest can add up very quickly. With 24 and 32 input channels, respectively, the MG24/14FX and MG32/14FX are ready to handle all but the most ambitious sound-reinforcement setups. And with dual SPX digital effect systems on-board you won't need racks of outboard gear to get the sound you need. There's also a comprehensive range of group and auxiliary busses to make even complex mixes easy.

MG24/14FX



MG32/14FX



24 or 32 Input Channels

Choose either the 24-channel MG24/14FX or the 32-channel MG32/14MX according to your needs. All other features are the same. The MG24/14FX has 16 mono microphone/line channels while the MG32/14FX has 24. Both offer four stereo line channels in addition to the

Low-noise, High-precision Mic Preamps With Phantom Power

All 16 mic preamps in the MG24/14FX MG32/14FX are of They offer low-noise,



amplification with the widest possible range o dynamic and condenser microphones, which adds up to cleaner, better-sounding mixes. All mic preamps feature switchable phantom power for phantom-powered studio condenser microphones. Phantom power is switchable in 8-channel groups.

Illuminated Switches

Illuminated ON (channel), PFL (Pre-Fader Listen), and phantom-power switches let you confirm critical console settings at a glance.

14 Buses In All For Flexible Signal Routing



In addition to lots of input channels, live sound reinforcement applications usually demand a number of additional mixes – usually in the form of

aux sends for external signal processing and monitor mixes. In both the MG24/14FX and MG32/14FX you have a total of 14 mix buses: the main stereo program bus, four stereo group bus pairs for convenient channel grouping, six auxiliary busses (four configurable for pre- or post-fader operation and two set up as effect sends), and two internal effect busses that feed the dual high-performance built-in effect processors.

Insert I/O

All mono input channels feature insert I/O patch points so you can insert compressors, EQ, or other extra signal-processing gear into the channel signal path as required.

3-band Mid-sweep Channel EQ and HPF

The 3-band equalizers with a sweepable midband provided on all input channels are designed for exceptionally smooth, intuitive response that can help you to create cleaner,

All mono microphone input channels also feature a switchable high-pass filter that can be used to cut out unwanted low-frequency noise.

Dual SPX Digital Effects

In the MG24/14FX and MG32/14FX two high-performance digital signal processing stages, fed by separate effect buses, so you can enhance your mix with two separate effects at the same



time. And the effects are provided by the very latest Yamaha DSP technology - you know you're getting the best.

Each stage provides a selection of 16 professional - quality SPX digital effects, including reverb, delay, pitch change, chorus, phasing, vocal doubling, distortion, and more.

Parameter controls that can be adjusted to tailor the effects to your sonic requirement are also provided and Tap delay makes it easy to produce tempo-synchronized delays.

Talkback Input

Communication capability is important for efficient setup as well as for keeping a show running smoothly. The MG24/14FX and MG32/14FX both feature a talkback system that allows the FOH engineer to communicate with the monitor engineer, performers, or other staff to keep the team operating at optimum

Balanced XLR Stereo and Mono Outputs

Professional connectivity is provided by reliable XLR-type balanced stereo and mono outputs.

Sweepable LPF for Mono Out

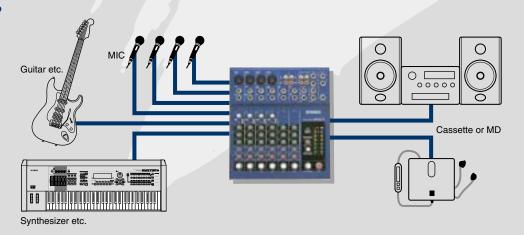
One of the many uses for a mono output is to drive a subwoofer system. The MG24/14FX and MG32/14FX make this easier than ever with a built-in sweepable low-pass filter on the mono



Application Examples

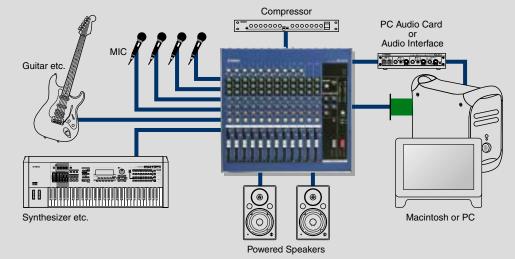
1. Basic Mix & Recording

In this simple recording system a small MG mixer is used to combine the outputs from a stereo keyboard, a rhythm/backing unit, a guitar, and vocal microphone. The results are mixed to stereo and recorded to cassette or MD.



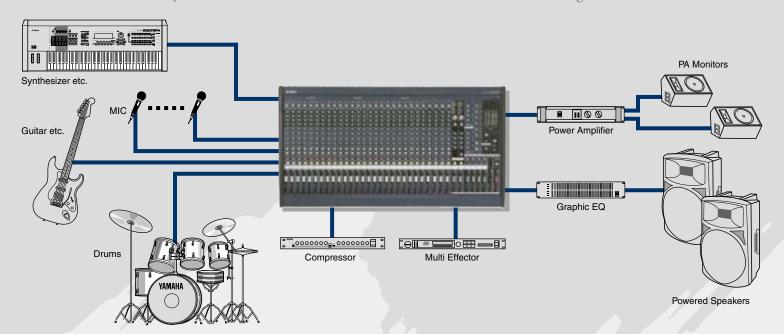
2. Computer-based Music Production

The current trend is toward computer-based music production, but you still need a good mixer to combine your sources in order to feed your computer's audio interface, as well as for monitoring.



3. A Small Sound Reinforcement System

A sound reinforcement system of about this scale is ideal for small clubs, churches, meeting rooms and similar venues.



MG Series Specifications

		-/-						
		MG10/2	MG12/4	MG16/4	MG16/6FX			
Total Harmonic Dist	ortion	Less than 0.1 % (THD+N) 20 Hz – 20 kHz @ +14 dB 600 Ω (ST 0UT)						
Frequency Response	•			-3 dB 4 dB 600 Ω (ST OUT)				
Input Hum & Noise '	1			8 dB in=Maximum, Input sensitivity=-60 dB				
Crosstalk			-70 dB (@ 1 kHz	~ 🗸			
	Mic	4 (Ch 1 - 2, 3/4, 5/6: XLR)	6 (Ch 1 - 4, 5/6, 7/8: XLR)	10 (Ch 1 - 8, 9/10, 11, 12: XLR)	10 (Ch 1 - 8, 9/10, 11, 12: XLR)			
	Line	2 (Ch 1 – 2: TRS)	4 (Ch 1 – 4: TRS)	8 (Ch 1 – 8: TRS)	8 (Ch 1 – 8: TRS)			
CH Input	Stereo	2 (Ch 3 – 4, 5 – 6: TRS) * Ch3, 5: L (MONO) 2 (Ch 7 – 8, 9 – 10: TRS/RCA)	2 (Ch 5 – 6, 7 – 8: TRS) * Ch5, 7: L (MONO) 2 (Ch 9 – 10, 11 – 12: TRS/RCA)	2 (Ch 9 – 10, 11 – 12: TRS) * Ch9, 11: L (MONO) 2 (Ch 9 – 10, 11 – 12: TRS/RCA)	2 (Ch 9 - 10, 11 - 12: TRS) * Ch9, 11: L (MON 2 (Ch 9 - 10, 11 - 12: TRS/RCA)			
	Insert I/O	2 (Ch 1 - 2: TRS = T: Out, R: In, S: Gnd)	4 (Ch 1 - 4: TRS = T: Out, R: In, S: Gnd)	8 (Ch 1 - 8: TRS = T: Out, R: In, S: Gnd)	8 (Ch 1 - 8: TRS = T: Out, R: In, S: Gnd)			
ALIV	Send	2 (1/Pre, 2/Post: TRS)	2 (1/Post-Pre selectable, 2/Post: TRS)	2 (1/Post-Pre selectable, 2/Post: TRS)	2 (1/Pre, 2/Post-Pre selectable: TRS)			
AUX	Return	1 Stereo (L/MONO, R: TRS)	1 Stereo (L/MONO, R: TRS)	1 Stereo (L/MONO, R: TRS)	1 Stereo (L/MONO, R: TRS)			
EFFECT	Send				1 (TRS)			
2TR	In	1 Stereo (L, R: RCA)	1 Stereo (L, R: RCA)	1 Stereo (L, R: RCA)	1 Stereo (L, R: RCA)			
REC	Out	1 Stereo (L, R: RCA)	1 Stereo (L, R: RCA)	1 Stereo (L, R: RCA)	1 Stereo (L, R: RCA)			
ST	Out	1 Stereo (L, R: TRS)	2 Stereo (L, R: 2 TRS & 2 XLR)	2 Stereo (L, R: 2 TRS & 2 XLR)	2 Stereo (L, R: 2 TRS & 2 XLR)			
C/R	Out	1 Stereo (L, R: TRS)	1 Stereo (L, R: TRS)	1 Stereo (L, R: TRS)	1 Stereo (L, R: TRS)			
GROUP Out		<u> </u>	2 (1, 2: TRS)	2 (1, 2: TRS)	4 (1 – 4: TRS)			
Phones		1 (TRS Stereo)	1 (TRS Stereo)	1 (TRS Stereo)	1 (TRS Stereo)			
Phantom Power		+ 48 V	+ 48 V	+ 48 V	+ 48 V			
CH & ST Ch Input Gain Control		44 dB valiable	44 dB valiable	44 dB valiable	44 dB valiable			
CH & ST High Pass Filter		80 Hz 12 dB/Octave	80 Hz 12 dB/Octave	80 Hz 12 dB/Octave	80 Hz 12 dB/Octave			
	High	10 kHz (Shelving)	10 kHz (Shelving)	10 kHz (Shelving)	10 kHz (Shelving)			
CH EQ (MONO) *2	Mid	2.5 kHz (Peaking)	2.5 kHz (Peaking)	2.5 kHz (Peaking)	0.25 - 5 kHz (Peaking)			
±15 dB (Max.)	Low	100 Hz (Shelving)	100 Hz (Shelving)	100 Hz (Shelving)	100 Hz (Shelving)			
	High	10 kHz (Shelving)	10 kHz (Shelving)	10 kHz (Shelving)	10 kHz (Shelving)			
	Hi-Mid	_	_		3 kHz (Peaking)			
CH EQ (STEREO) *2	Mid	2.5 kHz (Peaking)	2.5 kHz (Peaking)	2.5 kHz (Peaking)	_			
±15 dB (Max.)	Low-Mid	_	_		800 Hz (Peaking)			
	Low	100 Hz (Shelving)	100 Hz (Shelving)	100 Hz (Shelving)	100 Hz (Shelving)			
		, , , , , , , , , , , , , , , , , , ,	(J/	7-band			
Graphic Equalizer		_	_	_	(125, 250, 500, 1 k, 2 k, 4 k, 8 kHz) ±12 dB (Max.)			
Internal Digital Effec	t	_		_	16 Programs: Parameter Control			
	Width	259 mm	317.5 mm	423 mm	423 mm			
Dimensions	Depth	288 mm	417.5 mm	417.5 mm	417.5 mm			
	Height	64 mm	104 mm	104 mm	104 mm			
Weight		1.9 kg	5.0 kg	5.2 kg	5.5 kg			
		U: 19 W 120 V/60 Hz	U/C: 27 W 120 V/60 Hz	U/C: 38 W 120 V/60 Hz	U: 51 W 120 V/60 Hz			
		H: 19 W 230 V/50 Hz	H: 27 W 230 V/50 Hz	H: 38 W 230 V/50 Hz	H: 51 W 230 V/50 Hz			
Power Requirement	s	B: 19 W 230 V/50 Hz	B: 27 W 230 V/50 Hz	B: 38 W 230 V/50 Hz	B: 51 W 230 V/50 Hz			
		K: 19 W 220 V/50 Hz	K: 27 W 220 V/60 Hz	K: 38 W 220 V/60 Hz	K: 51 W 220 V/60 Hz			
		A: 19 W 240 V/50 Hz	A: 27 W 240 V/50 Hz	A: 38 W 240 V/50 Hz	A: 51 W 240 V/50 Hz			
Other		Mic Stand Mountable	Rack Mountable	Rack Mountable	Rack Mountable			
Option		Mic Stand Adapter BMS-10A	_	_	_			

		MG24/14FX	MG32/14FX			
Total Harmonic Distortion		Less than 0.1 % (THD+N) 20 Hz – 20 kHz @ +14 dB 600 Ω (ST OUT)				
Frequency Respons		0 +1, -3 dB 20 Hz $ 20$ kHz @ +4 dB 600 Ω (ST OUT)				
Input Hum & Noise '	1		-128dB 20 Hz – 20 kHz, Rs=150 Ω, Input Gain=Maximum, Input Pad =0FF, Input sensitivity=-60 dB			
Crosstalk		-70dB @	∄ 1kHz			
	Mic	16+1 (Input A 1 – 16, Talk Back: XLR)	24+1 (Input A 1 - 24, Talk Back: XLR)			
	Line	16 (Input B 1 – 16: TRS)	24 (Input B 1 – 24: TRS)			
CH Input	Stereo	2 (Ch 17 – 18, 19 – 20:TRS) * Ch17, 19:L (MONO) 2 (Ch 21 – 22, 23 – 24: TRS/RCA)	2 (Ch 25 – 26, 27 – 28:TRS) * Ch25, 27:L (MONO) 2 (Ch 29 – 30, 31 – 32: TRS/RCA)			
	Insert I/O	16 (Ch 1 - 16: TRS T: Out, R: In, S: Gnd)	24 (Ch 1 - 24: TRS T: Out, R: In, S: Gnd)			
AUX	Send	6 (1 – 2/Post-Pre selectable, 3 – 4/P	ost-Pre selectable, 5 – 6/Post: TRS)			
AUX	Return	2 Stereo Sub In (L/MONO, R: TRS)				
EFFECT	Send	2 (1, 2	: TRS)			
2TR	In	1 Stereo (L				
STEREO	Insert	1 Stereo (I				
GROUP	Insert	4 (1 – 4: TRS)				
REC	Out	1 Stereo (L, R: RCA)				
ST	Out	1 Stereo (L, R: XLR)				
MONO	Out	1 (XLR)				
ST SUB	Out	1 Stereo (L, R: TRS)				
GROUP	Out	4 (1 – 4: TRS)				
Phones		1 (TRS	Stereo)			
Phantom Power		+ 48 V				
CH & ST Ch Input Gai		44 dB valiable				
CH & ST High Pass I	ilter	80 Hz 12 dB/Octave				
CH EQ (MONO) *2	High	10 kHz (Shelving)				
±15 dB (Max.)	Mid	0.25-5 kHz (Peaking)				
±13 ub (max.)	Low	100 Hz (Shelving)				
	High	10 kHz (S				
CH EQ (STEREO) *2	Hi-Mid	3 kHz (Peaking)				
±15 dB (Max.)	Low-Mid	800 Hz (I				
	Low	100 Hz (S				
MONO Out Low Pass Filter		80 – 120 Hz				
Internal Digital Effect		SPX x 2 (Effect 1: 16 Programs, Effect	2: 16 Programs :Parameter Control)			
	Width	852 mm	1060 mm			
Dimensions	Depth	540 mm	540 mm			
Height		150 mm	150 mm			
Weight		21 kg	24 kg			
Power Requirement	s	UL/CSA: 60 W 120 V/60 Hz GENERAL: 60 W 230 V/50 Hz	UL/CSA: 75 W 120 V/60 Hz GENERAL: 75 W 230 V/50 Hz			

^{*1} Hum & Noise are measured with a 6 dB/octave filter @ 12.7 kHz;equivalent to a 20 kHz filter with infinite dB/octave attenua
*2 Turn over /roll-off frequency of shelving: 3 dB below maximum variable level.

MG10/2 INPUT CHARACTERISTICS

	Gain	Actual Load	For Use With	Input L			
Connection	Trim	Impedance	Nominal	Nominal	Max. before Clip	Connector In Mixer	
0111111110 (4 0)	-60	0.10	F0 000 0 M	-60 dB (0.775 mV)	-40 dB (7.75 mV)	VII D 0 04 1 12	
CH IN MIC (1 – 2)	-16	3 kΩ	50 – 600 Ω Mics	-16 dB (123 mV)	+4 dB (1.23 V)	XLR-3-31 type *2	
OLUME (4 O)	-34	101-0	C00 O Li	-34 dB (15.5 mV)	-14 dB (155 mV)	Dhara Isali (TDC) *2	
CH IN LINE (1 – 2)	10	10 kΩ	600 Ω Lines	+10 dB (2.45 V)	+30 dB (24.5 V)	Phone Jack (TRS) *3	
ST CH MIC IN	-60	3 kΩ	50 – 600 Ω Mics	-60 dB (0.775 mV)	-40 dB (7.75 mV)	XLR-3-31 type *2	
(CH 3 - 4, 5 - 6)	-16			-16 dB (123 mV)	-6 dB (388 mV)		
ST CH LINE IN	-34	10 kΩ	600 Ω Lines	-34 dB (15.5 mV)	-14 dB (155 mV)	Phone Jack *4	
(CH 3 - 4, 5 - 6)	10			+10 dB (2.45 V)	+30 dB (24.5 V)		
ST CH INPUT (CH 7 – 8, 9 – 10)		10 kΩ	600 Ω Lines	-10 dB (245 mV)	+10 dB (2.45 V)	Phone Jack *4 RCA Pin Jack	
CH INSERT IN (1 - 2)		10 kΩ	600 Ω Lines	0 dB (0.775 V)	+20 dB (7.75 V)	Phone Jack (TRS) *5	
AUX RETURN [L, R]		10 kΩ	600 Ω Lines	+4 dB (1.23 V)	+24 dB (12.3 V)	Phone Jack *4	
2TR IN [L, R]		10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack	

MG10/2 OUTPUT CHARACTERISTICS

Connection	Actual Source	For Use With	Output	On a section to Misses	
Connection	Impedance	Nominal	Nominal	Max. before Clip	Connector In Mixer
ST OUT [L, R]	150 Ω	10 kΩ Lines	+4 dB (1.23 V)	+24 dB (12.3 V)	Phone Jack (TRS) *6
AUX SEND	150 Ω	10 kΩ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone Jack (TRS) *6
CH INSERT OUT (1 - 2)	150 Ω	10 kΩ Lines	0 dB (0.775 V)	+20 dB (7.75 V)	Phone Jack (TRS) *3
2TR OUT [L, R]	600 Ω	10 kΩ Lines	-10 dBV (245 mV)	+10 dBV (2.45 V)	RCA Pin Jack
C-R OUT [L, R]	150 Ω	10 kΩ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone Jack (TRS) *5
PHONES OUT	100 Ω	40 Ω Phones	30 mW	75 mW	Stereo Phones Jack

MG12/4, MG16/4 INPUT CHARACTERISTICS

	Gain	Actual Load	For Use With	Input L		
Connection	Trim	Impedance	Nominal	Nominal	Max. before Clip	Connector In Mixer
CH IN MIC *7	-60	3 kQ.	50 – 600 Ω Mics	-60 dB (0.775 mV)	-40 dB (7.75 mV)	VI D 0 04 b *2
CH IN MIC '	-16	3 K12	50 - 600 \$2 IVICS	-16 dB (123 mV)	+4 dB (1.23 V)	XLR-3-31 type *2
OLUME *7	-34	10 kQ	C00 O Li	-34 dB (15.5 mV)	-14 dB (155 mV)	Dhara Isali (TDC) *2
CH IN LINE *7	10	10 KZ2	600 Ω Lines	+10 dB (2.45 V)	+30 dB (24.5 V)	Phone Jack (TRS) *3
ST CH MIC IN *8	-60	3 kΩ	50 – 600 Ω Mics	-60 dB (0.775 mV)	-40 dB (7.75 mV)	XLR-3-31 type *2
21 CH MIC IN °	-16			-16 dB (123 mV)	-6 dB (388 mV)	
CT OLLUME IN 19	-34	10 kΩ	600 Ω Lines	-34 dB (15.5 mV)	-14 dB (155 mV)	Phone Jack *4
ST CH LINE IN *8	10			+10 dB (2.45 V)	+30 dB (24.5 V)	
ST CH INPUT *9		10 kΩ	600 Ω Lines	-10 dB (245 mV)	+10 dB (2.45 V)	Phone Jack *4 RCA Pin Jack
CH INSERT IN *7		10 kΩ	600 Ω Lines	0 dB (0.775 V)	+20 dB (7.75 V)	Phone Jack (TRS) *1
AUX RETURN [L, R]		10 kΩ	600 Ω Lines	+4 dB (1.23 V)	+24 dB (12.3 V)	Phone Jack *3
2TR IN [L, R]		10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG12/4, MG16/4 OUTPUT CHARACTERISTICS

I		Actual Source	For Use With	Output		
	Connection	Impedance	Nominal	Nominal	Max. before Clip	Connector In Mixe
	ST OUT [L, R]	150 Ω	600 Ω Lines	+4 dB (1.23 V)	+24 dB (12.3 V)	XLR-3-32 type *2 Phone Jack (TRS) *
	GROUP OUT (1 - 2)	150 Ω	10 kΩ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone Jack (TRS) *
	CH INSERT OUT *7	150 Ω	10 kΩ Lines	0 dB (0.775 V)	+20 dB (7.75 V)	Phone Jack (TRS) *
	REC OUT [L, R]	600 Ω	10 kΩ Lines	-10 dBV (245 mV)	+10 dBV (2.45 V)	RCA Pin Jack
	C-R OUT [L, R]	150 Ω	10 kΩ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone Jack (TRS) *
	PHONES OUT	100 Ω	40 Ω Phones	30 mW	75 mW	Stereo Phones Jack

^{*1} In these specifications, when dB represents a specific voltage, 0 dB is referenced to 0.775 V

MG16/6FX INPUT CHARACTERISTICS

	Gain	Actual Load	For Use With	Input L	On annual to Misses	
Connection	Trim	Impedance	Nominal	Nominal	Max. before Clip	Connector In Mixer
OLUMANO (OLIA O)	-60	0.140	50 – 600 Q Mics	-60 dB (0.775 mV)	-40 dB (7.75 mV)	XLR-3-31 type *2
CH IN MIC (CH1 – 8)	-16	3 kΩ	20 - 600 22 MICS	-16 dB (123 mV)	+4 dB (1.23 V)	ALH-3-31 type 2
CH IN LINE (CH1 – 8)	-34	10 kΩ	600 Ω Lines	-34 dB (15.5 mV)	-14 dB (155 mV)	Phone Jack (TRS) *6
CH IN LINE (CH I - 8)	10	10 KS2	000 12 Lines	+10 dB (2.45 V)	+30 dB (24.5 V)	Priorie Jack (TRS) o
ST CH MIC IN *7	-60	3 kΩ	50 – 600 Ω Mics	-60 dB (0.775 mV)	-40 dB (7.75 mV)	XLR-3-31 type *2
21 CH MIC IN 1	-16			-16 dB (123 mV)	-6 dB (388 mV)	ALH-3-31 type 2
ST CH LINE IN *7	-34	10110	600 Ω Lines	-34 dB (15.5 mV)	-14 dB (155 mV)	Phone Jack *4
ST CH LINE IN 1	10	10 kΩ		+10 dB (2.45 V)	+30 dB (24.5 V)	Priorie Jack 4
ST CH INPUT *8		10 kΩ	600 Ω Lines	-10 dB (245 mV)	+10 dB (2.45 V)	Phone Jack *4 RCA Pin Jack
CH INSERT IN (1 – 8)		10 kΩ	600 Ω Lines	0 dB (0.775 V)	+20 dB (7.75 V)	Phone Jack (TRS) *5
AUX RETURN [L, R]		10 kΩ	600 Ω Lines	+4 dB (1.23 V)	+24 dB (12.3 V)	Phone Jack *4
2TR IN (L, R)		10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG16/6FX OUTPUT CHARACTERISTICS

Occasion	Actual Source	For Use With	Output	O	
Connection	Impedance	Nominal	Nominal	Max. before Clip	Connector In Mixer
ST OUT [L, R]	150 Ω	600 Ω Lines	+4 dB (1.23 V)	+24 dB (12.3 V)	XLR-3-32 type *2 Phone Jack (TRS) *4
GROUP OUT (1 – 4) AUX SEND (1, 2) EFFECT SEND	150 Ω	10 kΩ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone Jack (TRS) *6
CH INSERT OUT (CH1 - 8)	150 Ω	10 kΩ Lines	0 dB (0.775 V)	+20 dB (7.75 V)	Phone Jack (TRS) *5
REC OUT [L, R]	600 Ω	10 kΩ Lines	-10 dBV (245 mV)	+10 dBV (2.45 V)	RCA Pin Jack
C-R OUT [L, R]	150 Ω	10 kΩ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone Jack (TRS) *6
PHONES OUT	100 Ω	40 Ω Phones	30 mW	75 mW	Stereo Phones Jack

MG24/14FX, MG32/14FX INPUT CHARACTERISTICS

	PAD	Gain	Actual Load	For Use With	Input L	.evel *1	
Connection	FAU	Trim	Impedance	Nominal	Nominal	Max. before Clip	Connector In Mixe
	0	-60			-60 dB (0.775 mV)	-40 dB (7.75 mV)	
CH INPUT [A. B] *7	26	-00	3 kΩ	50 - 600 Ω Mics	-34 dB (15.5 mV)	-14 dB (155 mV)	A: XLR-3-31 type *10
CH INFUI [A, D]	0	-16	3 KS2	600 Ω Lines	-16 dB (123 mV)	+4 dB (1.23 V)	B: Phone Jack (TRS) *
	26	-10			+10 dB (2.45 V)	+30 dB (24.5 V)	
OT OU BIDLIT #9 #9	-34	10 kΩ	600 Ω Lines	-34 dB (15.5 mV)	-14 dB (155 mV)	Phone Jack *8 *9 *7	
ST CH INPUT *8 *9		10	10 152	000 22 21103	+10 dB (2.45 V)	+30 dB (24.5 V)	RCA Pin Jack *9
CH INSERT IN *7			10 kΩ	600 Ω Lines	0 dB (0.775 V)	+20 dB (7.75 V)	Phone Jack (TRS) *5
GROUP INSERT IN (1 – 4)		10 kΩ	600 Ω Lines	0 dB (0.775 V)	+20 dB (7.75 V)	THUILE DALK (THO)	
SUB IN (1, 2) [L, R]			10 kΩ	600 Ω Lines	+4 dB (1.23 V)	+24 dB (12.3 V)	Phone Jack *4
TB IN			10 kΩ	50 – 600 Ω Mics	-50 dB (2.45 mV)	-30 dB (24.5 mV)	XLR-3-31 type *11
2TR IN [L, R]			10 kΩ	600 Ω Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack

MG24/14FX, MG32/14FX OUTPUT CHARACTERISTICS

0	Actual Source	For Use With	Uutput	On an analysis to Ballions	
Connection	Impedance	Nominal	Nominal	Max. before Clip	Connector In Mixer
ST OUT [L, R] MONO OUT	150 Ω	600 Ω Lines	+4 dB (1.23 V)	+24 dB (12.3 V)	XLR-3-32 type *2
GROUP OUT (1 – 4) ST SUB OUT [L, R] AUX OUT (1 – 6) EFFECT OUT (1, 2)	150 Ω	10 kΩ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone Jack (TRS) *6
CH INSERT OUT *12 GROUP INSERT OUT (1 – 4) ST INSERT OUT [L, R]	150 Ω	10 kΩ Lines	0 dB (0.775 V)	+20 dB (7.75 V)	Phone Jack (TRS) *5
REC OUT [L, R]	600 Ω	10 kΩ Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA Pin Jack
PHONES OUT	100 Ω	40 Ω Phones	30 mW	75 mW	Stereo Phone Jack

^{*1} Hum & Noise are measured with a 6 dB/octave filter © 12.7 kHz;equivalent to a 20 kHz filter with infinite dB/octave attenuation
*2 Turn over /roll-off frequency of shelving: 3 dB below maximum variable level.

^{*2} XLR type connectors are balanced.
*3 CH INPUT Phone Jacks (TRS) are balanced. [T: HDT, R: COLD, S: GND]

^{*5} INSERT Phone Jacks (TRS) are unbalanced. [T: OUT, R: IN, S: GND]
*6 Phone Jacks (TRS) are impedance balanced. [T: HOT, R: COLD, S: GND]

^{*8} MG12/4: CH5 (L)/6 (R), CH7 (L)/8 (R), MG16/4: CH9 (L)/10 (R), CH11 (L)/12 (R), MG16/ CH13 (L)/14 (R), CH15 (L)/16 (R), MG24/14FX: CH17 (L)/18 (R), CH19 (L)/20 (R),

¹⁹ MGT24: CHB (L)70 (H), CHT1 (L)72 (H), MGT94: CHT3 (L)74 (H), CHT5 (L)76 (H), MG24/14FX: CHT2 (L)27 (R), CHS2 (L)24 (R) MG32/14FX: CHS2 (L)26 (R), CHS1 (L)/10 (H) CHI HPUT XLR hype connectors and Phone, Jacks (TRS) are balanced. [T: HOT, R: COLD, S: "11 TBI N.XLR hype connector in broblashootd."